

Appendix B

External Review and Coordination

SEP 10 2001

3306



United States Department of the Interior

FISH AND WILDLIFE SERVICE

446 Neal Street
Cookeville, TN 38501

September 6, 2001

Lt. Colonel Steven W. Gay
District Engineer
U.S. Army Corps of Engineers
P.O. Box 1070
Nashville, Tennessee 37202-1070

Attention: Marty G. Tyree, Regulatory Branch

Dear Colonel Gay:

Fish and Wildlife Service (Service) personnel have reviewed the public notice listed below. The following constitute the comments of the U.S. Department of the Interior provided in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.) and the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

| <u>Public Notice #</u> | <u>Date</u> | <u>Applicant</u> | <u>Due Date</u> |
|------------------------|-------------|-----------------------------------|-----------------|
| 01-62 | 08-09-01 | Hallsdale-Powell Utility District | 09-08-01 |

Endangered species collection records available to the Service do not indicate that federally listed or proposed endangered or threatened species occur within the impact area of the project. We note, however, that collection records available to the Service may not be all-inclusive. Our data base is a compilation of collection records made available by various individuals and resource agencies. This information is seldom based on comprehensive surveys of all potential habitat and thus does not necessarily provide conclusive evidence that protected species are present or absent at a specific locality. However, based on the best information available at this time, we believe that the requirements of Section 7 of the Endangered Species Act of 1973, as amended, are fulfilled. Obligations under Section 7 of the Act must be reconsidered if (1) new information reveals impacts of the proposed action that may affect listed species or critical habitat in a manner not previously considered, (2) the proposed action is subsequently modified to include activities which were not considered during this consultation, or (3) new species are listed or critical habitat designated that might be affected by the proposed action.

No significant adverse impacts to fish and wildlife, their habitats, and human uses thereof are expected to result from the proposal. Therefore, the Service has no objection to the issuance of the permit to conduct the work described in the subject public notice.

Sincerely,

A handwritten signature in black ink, appearing to read "Lee A. Barclay". The signature is written in a cursive, flowing style.

Lee A. Barclay, Ph.D.
Field Supervisor

xc: Scott Ledford, TVA, Lenoir City

TBM:sjs



TENNESSEE HISTORICAL COMMISSION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
2941 LEBANON ROAD
NASHVILLE, TN 37243-0442
(615) 532-1550

October 29, 2001

Mr. J. Bennett Graham
Tennessee Valley Authority
Cultural Resources
Post Office Box 1589
Norris, Tennessee 37828-1589

RE: COE-N, ARCHAEOLOGICAL ASSESSMENT, PN# 01-62/INTAKE/CLINCH RM 46.3L,
UNINCORPORATED, ANDERSON COUNTY, TN

Dear Mr. Graham:

At your request, our office has reviewed the above-referenced archaeological survey report in accordance with regulations codified at 36 CFR 800 (Federal Register, December 12, 2000, 77698-77739). Based on the information provided, we find that the project area contains no archaeological resources eligible for listing in the National Register of Historic Places.

Therefore, this office has no objection to the implementation of this project. If project plans are changed or archaeological remains are discovered during construction, please contact this office to determine what further action, if any, will be necessary to comply with Section 106 of the National Historic Preservation Act.

Your cooperation is appreciated.

Sincerely,

Herbert L. Harper
Executive Director and
Deputy State Historic
Preservation Officer

HLH/jmb

cc: Marty Tyree, COE-N



TENNESSEE HISTORICAL COMMISSION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
2941 LEBANON ROAD
NASHVILLE, TN 37243-0442
(615) 532-1550

August 14, 2001

Mr. Marty Tyree
U.S. Army Corps of Engineers, Nashville District
Regulatory Branch
3701 Bell Road
Nashville, Tennessee 37214

RE: COE-N, PN# 01-62/INTAKE/CLINCH RM 46.3L, UNINCORPORATED,
ANDERSON COUNTY

Dear Mr. Tyree:

The above-referenced undertaking has been reviewed with regard to National Historic Preservation Act compliance by the participating federal agency or its designated representative. Procedures for implementing Section 106 of the Act are codified at 36 CFR 800 (Federal Register, December 12, 2000, 77698-77739).

In order to complete our review of this undertaking, this office will need to receive from you a detailed archaeological survey report on the area of potential effect. Enclosed please find a list of individuals and organizations which have indicated a desire to work in Tennessee. This list is solely for the convenience of persons or firms seeking archaeological services. It does not indicate nor imply any sanction, certification, or approval by the State of Tennessee.

Upon receipt of the survey report, we will complete our review of this undertaking as expeditiously as possible. Until such time as this office has rendered a final comment on this project, your Section 106 obligation under federal law has not been met. Please inform this office if this project is canceled or not funded by the federal agency. Questions and comments may be directed to Jennifer Bartlett (615) 741-1588, ext. 17.

Your cooperation is appreciated.

Sincerely,

Herbert L. Harper
Executive Director and
Deputy State Historic
Preservation Officer

HLH/jmb

AUG 20 2001



NOV 20 2002

DEPARTMENT OF ENVIRONMENT & CONSERVATION
Division of Water Pollution Control
401 Church Street
7th Floor, L & C Building
Nashville, TN 37243-1534

November 4, 2002

Hallsdale-Powell Utility District
3745 Cunningham Road
Knoxville, Tennessee 37918

SUBJECT: §401 Water Quality Certification
General Permit for Utility Line Crossings of Streams
Tennessee Aquatic Resource Alteration Permit
Joint Public Notice 01-62
State of Tennessee Application # NRS 01-301

NOV 13 2002

Dear Sir or Madam:

Pursuant to §401 of the Federal Clean Water Act (33 U.S.C. §1341), the State of Tennessee is required to certify whether the activity described below will violate applicable water quality standards. Accordingly, the Division of Water Pollution Control requires reasonable assurance that the activity will not violate provisions of *The Tennessee Water Quality Control Act of 1977* (T.C.A. § 69-3-101 et seq.) or of §§ 301, 302, 303, 306 or 307 of *The Clean Water Act*.

Subject to conformance with approved plans, specifications, and other information submitted in support of the referenced application, the State of Tennessee hereby certifies the proposed activity pursuant to 33 U.S.C. 1341. This shall serve as authorization pursuant to T.C.A. § 69-3-101 et seq.

LOCATION: Off New Henderson Road at Bull Run Embayment, Mile 2.0L,
Clinch River mile 46.3L, Melton Hill Lake; Anderson County Tennessee;
Latitude 36° 00' 39.5", Longitude 84° 08' 04.1"

DESCRIPTION: The authorized work includes construction of a new raw water intake structure. The intake would be two 30" diameter pipes that would extend approximately 200' into the waterway and include 4' by 6.5' intake screens. The pipes would be trenched below the lake bottom for the initial 110' and daylight near elevation 785'. A temporary cofferdam would be constructed to facilitate the installation of this segment.

EFFECTIVE DATE: November 4, 2002

EXPIRATION DATE: November 4, 2007

SPECIAL CONDITIONS:

- 1) New utility line crossings shall be located such as to avoid permanent alteration or damage to the integrity of the stream channel. Large trees, steep banks, rock outcroppings, etc. should be avoided.
- 2) Soil must be prevented from entering waters of the state. Erosion and sedimentation control measures to protect water quality must be maintained throughout the construction period. Erosion and sedimentation controls shall include, but are not limited to straw or hay bales and/or silt fence, brush barriers, berms, sediment ponds and other proven devices. Hay bales and/or silt fence must be installed along the base of all fills and cuts, on the down hill side of stock piled soil, and along stream banks in cleared areas to prevent sedimentation to streams. They must be installed on the contour, entrenched and staked, and extend the

November 4, 2002

An appeal of this action may be made to the Water Quality Control Board. In order to appeal, a petition requesting a hearing before the Board must be filed within 30 days after receipt of the permit action. In such petition, each contention should be stated in numbered paragraphs that describe how the proposed activity would be lawful and the action of the state is inappropriate. The petition must be prepared on 8½" by 11" paper, addressed to the Water Quality Control Board and filed in duplicate at the following address: Paul E. Davis, Director, Division of Water Pollution Control, 6th Floor L & C Annex, 401 Church Street, Nashville, Tennessee 37243-1534. Any hearing would be in accordance with T.C.A. §69-3-110 and 4-5-301 et seq. Questions concerning this certification should be addressed to Mr. Robert Baker at 615-532-0710.

Sincerely,



for
Paul E. Davis
Director

cc: Tom Welborn, U.S. Environmental Protection Agency, Atlanta, GA.
Lee Barclay, U.S. Fish & Wildlife Service, Cookeville, TN
Dan Sherry, Tenn. Wildlife Resources Agency, Nashville, TN
Marty Tyree, Nashville District Corps of Engineers, Nashville, TN
Jonathon Burr, Water Pollution Control Division, Knoxville Environmental Assistance Center

Davis, Stanford E.

From: Robert.D Baker [Robert.D.Baker@state.tn.us]
Sent: Wednesday, February 19, 2003 10:02 AM
To: Davis, Stanford E.
Cc: Ledford, W Scott
Subject: RE: Hallsdale-Powell Utility District (HPUD) - Section 401 Water Quality Certification (WQC)

Dear Mr. Davis:

We have reviewed the changes in the project description subsequent to the issuance of the Division's §401 Water Quality Certification. We find that no modification to the §401 is necessary and that the terms or conditions of that authorization are still valid and appropriate. Thank you for the consideration. Please contact me if further discussion is needed.

Robert Baker
Tennessee Water Pollution Control Division
401 Church Street
7th Floor L & C Annex
Nashville, Tennessee 37243-1534

>>> "Davis, Stanford E." <sedavis2@tva.gov> 1:15:11 PM Tuesday, February 18, 2003 >>>
Realize how busy you are, but it would be extremely helpful if I could get your response to the request below in the next day or two?

Stan

-----Original Message-----

From: Davis, Stanford E.
Sent: Thursday, February 13, 2003 3:08 PM
To: 'Robert Baker (E-mail)'
Cc: Ledford, W Scott; 'Tyree, Marty G LRN'
Subject: RE: Hallsdale-Powell Utility District (HPUD) - Section 401 Water Quality Certification (WQC)

Robbie:

Sorry, a minor correct worth noting: The length of the pipeline will be about 220 feet from the Melton Hill Reservoir (Bull Run Creek) shoreline at elevation 790 into the waterway. This would be the portion constructed under water and buried in the reservoir bottom. The additional 50 feet, between the pump house buliding and low reservor operating level shoreline, would be upgradient of elevation 790 and likely constructed "in the dry."

-----Original Message-----

From: Davis, Stanford E.
Sent: Thursday, February 13, 2003 1:34 PM
To: Robert Baker (E-mail)
Cc: Ledford, W Scott; 'Tyree, Marty G LRN'
Subject: Hallsdale-Powell Utility District (HPUD) - Section 401 Water Quality Certification (WQC)

Thanks to taking time to talk with me earlier today. As a followup, this is in regards to Tennessee Department of Environment and Conservation's WQC issued on November 4, 2002 [General Permit for Utility Line Crossings of Streams, TN ARAP, Joint Public Notice 01-62, State of TN Application #NRS 01-301] to HPUD.

It has come to my attention that minor changes to this proposal have occurred that differ with the description of the project included in your authorization. The pipes would extend approximately 270 feet into the

waterway [Bull Run Creek mile 2.0) instead of 200 feet. In addition, the portion of this pipe previously proposed to be "daylighted" near elevation 785 and run under the water and be anchored along the reservoir bottom, is now proposed to be buried [under the reservoir bottom].

In light of these changes and as we discussed, please determine if TDEC's conclusions may now differ and whether the special conditions in the November 4 WQC to avoid violations of state water quality standards still apply or need to be modified.

If appropriate, and to expedite matters, please respond by e-mail at the earliest possible time or no later than close of business, Tuesday, February 18.

This will allow more expeditious completion of the environmental review which is in progress. TDEC will be forwarded a copy of the final TVA and Corps environmental assessment when completed.

Call me at the number listed below if you have questions. Thanks for your help and cooperation.

Stan

Stanford E. Davis
Senior NEPA Specialist
NEPA Administration
Environmental Policy and Planning
400 West Summit Hill Drive, WT 8C
Knoxville, Tennessee 37902
Phone: 865.632.2915 Fax: 865.632.6855
E-mail: sedavis2@tva.gov <<mailto:sedavis2@tva.gov>>



SEP 23 2002

Doc Type: EA-Administrative Record
Index Field: Agency Comment
Project Name: Hallsdale-Powell Water
Project No.: 2002-112 Intake

September 20, 2002

Mr. Jon M. Loney, Manager
NEPA Administration
Environmental Policy and Planning
Tennessee Valley Authority
400 West Summit Hill Drive
Knoxville, TN 37902-1499

Dear Mr. Loney:

SUBJECT: Result of Regional Review
Tennessee Valley Authority - Draft Environmental Assessment, Water Intake for
Hallsdale-Powell Utility District on Melton Hill Lake in Anderson County

The East Tennessee Development District has reviewed a draft environmental assessment for Hallsdale-Powell Utility District to construct a water intake on Melton Hill in Anderson County.

Mr. L. Keith Grayson, Anderson County Zoning Officer, has written a letter to the East Tennessee Development District concerning this proposal. In his letter, Mr. Grayson transmits comments received from "Concerned Residents of Melton Hill Lake, Bull Run Creek Area" expressing their concerns over safety and navigation and their preferred alternative sites. These letters are attached as part of ETDD's review.

The East Tennessee Development District recommends that officials from Hallsdale-Powell Utility District and the Tennessee Valley Authority meet with these citizens to address their specific concerns prior to the final approval of this environmental assessment and the final selection of a location for the raw water intake structure.

ETDD or other reviewing agencies may wish to comment further at a later time.

We appreciate the opportunity to work with you in coordinating projects in the region.

Sincerely,

Terrence J. Bobrowski
Executive Director

TJB/tc

cc Mr. L. Keith Grayson, Anderson County Zoning Officer
Mr. Rex Lynch, Anderson County Executive
Mr. Marvin L. Hammond, Hallsdale-Powell Utility District
Mr. Richard L. Toennisson, NEPA Administration, TVA, Knoxville
Mr. Marty G. Tyree, U.S. Army Corps of Engineers, Knoxville

09/19/2002 14:33 4234577277 AC DEPW PAGE 02

ANDERSON COUNTY, TN
Department of Engineering and Public Works

BUILDING CODE ENFORCEMENT - ENGINEERING - PLANNING - SOLID WASTE MANAGEMENT - ZONING ENFORCEMENT

Suite 127
100 N. Main Street
Clinton, TN 37716
Phone: (865) 457-6244
Fax: (865) 457-6245
e-mail: publicworks3@home.com

September 19, 2002

Ms. Trudy Carpenter
East Tennessee Development District
5616 Kingston Pike
Knoxville, TN 37939-2806

Re: Response from Anderson County Regional Planning Commission public hearing of 9-10-02

Dear Trudy:

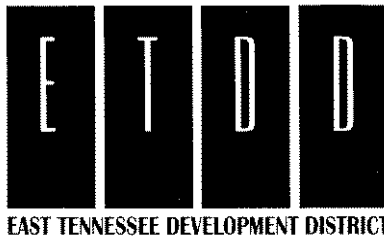
September 10, 2002, Anderson County Regional Planning Commission (ACRPC) held a public hearing to discuss Hallsdale Powell Utility District's (HPUD) intentions of constructing an intake facility on New Henderson Road in Powell, Tennessee. Unfortunately, HPUD or TVA did not have a representative present. A group of citizens referring to themselves as "concerned citizens of Melton Hill Lake" addressed the ACRPC both verbally and with the attached letter provided to each commissioner present. At the very least, I feel that these concerns should be addressed by the appropriate representative of HPUD or TVA at the next meeting of the ACRPC (10-8-02), if possible. The deadline to get on the official agenda for the October meeting is September 26, 2002. Please call my office to make arrangements for the item to be addressed at the meeting in a public setting.

Very Sincerely,



L. Keith Grayson
Anderson County Zoning Officer

Cc: Rex Lynch



August 30, 2002

Mr. Jon M. Loney, Manager
NEPA Administration
Environmental Policy and Planning
Tennessee Valley Authority
400 West Summit Hill Drive
Knoxville, TN 37902-1499

Dear Mr. Loney:

SUBJECT: Extension of Regional Review Time
Tennessee Valley Authority - Draft Environmental Assessment, Water Intake for
Hallsdale-Powell Utility District on Melton Hill Lake in Anderson County

The East Tennessee Development District is reviewing a draft environmental assessment for Hallsdale-Powell Utility District to construct a water intake on Melton Hill in Anderson County.

Under regulations governing the regional review process, the East Tennessee Development District normally has 30 days to complete review and to submit comments to the applicant or the funding agency. Under certain circumstances, an additional 30 days also may be required.

As a result of comments received from Mr. L. Keith Grayson, Anderson County Zoning Officer (attached), ETDD is extending the review an additional 30 days to allow Anderson County adequate time to submit its comments.

The East Tennessee Development District will complete the regional review as quickly as possible and will contact you if additional information is needed.

Sincerely,

Trudy Carpenter
Project Review Coordinator

RECEIVED
Environmental Policy and Planning

SEP 03 2002

cc Mr. Rex Lynch, Anderson County Executive
Mr. L. Keith Grayson, Anderson County Zoning Officer
Mr. Marvin L. Hammond, Hallsdale-Powell Utility District
Mr. Richard L. Toennisson, NPEA Administration, TVA, Knoxville
Mr. Marty G. Tyree, U.S. Army Corps of Engineers, Nashville

Doc Type: _____
Index Field: _____
Project Name: _____
Page No.: _____

ANDERSON COUNTY, TN
Department of Engineering and Public Works

BUILDING CODE ENFORCEMENT - ENGINEERING - PLANNING - SOLID WASTE MANAGEMENT - ZONING ENFORCEMENT

Suite 127
100 N. Main Street
Clinton, TN 37716
Phone: (865) 457-6244
Fax: (865) 457-6245
e-mail: publicworks3@home.com

August 30, 2002

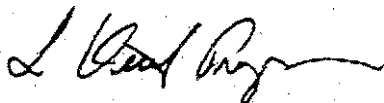
Ms. Trudy Carpenter
East Tennessee Development District
5616 Kingston Pike
Knoxville, TN 37939-2806

Re: Draft Environmental Assessment (EA) comments for proposed Hallsdale-Powell water intake facility on Melton Hill Reservoir

Dear Trudy:

Anderson County Regional Planning Commission requests more time to review the draft EA that was received by our office Monday, August 26, 2002. We have scheduled a public hearing for Tuesday, September 10, 2002 to receive comments from citizens either for or against the proposal. We should be able to submit written comments no later than September 13, 2002. Should you need any additional information or if the schedule does not meet your needs, please give me a call.

Very Sincerely,



L. Keith Grayson
Anderson County Zoning Officer

Cc: Rex Lynch



FEB 07 2002

ANDERSON COUNTY

REX A. LYNCH
COUNTY EXECUTIVE

January 31, 2002

To Whom It May Concern:

I along with residents in Anderson County oppose the installation of a Raw Water Intake Structure on Bull Run Creek of Melton Hill Lake, directly adjacent to the public boat launch/recreation area, across the bridge on Henderson Road.

This area is very important to the citizens of this county. The area is used for fishing, swimming, boating, wildlife observation, quietly sitting in their yards enjoying natural beauty, and even serves as a baptism pool for a local church. The intake would initially take 8 million gallons per day from the embayment and have a future capacity of 22 million gallons per day. Not only would this have a negative impact on creek and wetland wildlife it will also be a negative impact on the Park/Recreation area, several quiet residential neighborhoods that homes range from \$250,000 to \$400,000 and the facility would reduce the value. There is also safety concerns for the children and adults in the area because of the noise level, high powered utility lines, water pollution and water quality.

We feel there are several alternative areas that could be used that would not pose such a risk to the citizens and wildlife in the county. Halls Dale Powell has submitted an application for a 26a permit for TVA and an application for a Department of the Army Permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water act (33 U.S.C. 1344).

We appreciate your concern for the citizens in Anderson County. I want to thank you in advance for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Rex Lynch", is written over the word "Sincerely,".

Rex Lynch
County Executive

ANDERSON COUNTY BOARD OF COMMISSIONERS

September 17, 2002

Richard L. Toennisson
NEPA Administration
Tennessee Valley Authority
400 West Summit Hill Drive (WT 8C)
Knoxville, TN 37902-1499

Re: Hallsdale-Powell Utility District proposed intake facility

Dear Mr. Toennisson,

The Anderson County Board of Commissioners met in regular session on March 18, 2002, and passed the enclosed resolution in opposition to the Hallsdale-Powell Utility District's proposed intake facility located near the Bull Run Park and boat launch area in Anderson County. This resolution urges TVA to deny all permits relevant to the construction of this facility.

The newly elected Anderson County Board of Commissioners met in regular session on September 16, 2002, and reaffirmed the commitment of opposing the construction of the Hallsdale-Powell Utility District's intake facility at the proposed location near the Bull Run Park in Anderson County.

Your attention in this matter is greatly appreciated. If I can be of further assistance, please feel free to contact our office.

Sincerely,



James Mike Cox
Chairman
Mary E. Murphy
Administrative Assistant

RECEIVED

SEP 18 2002

RSO&E
Environmental Policy & Planning

RESOLUTION

Whereas, the Hallsdale-Powell Utility District proposes to construct an intake facility near the Bull Run park and boat launch area, and

Whereas, this facility will generate a high noise level, create safety hazards and concerns, reduce property values, and be of no benefit to the citizens of Anderson County, and

Whereas, quiet and peaceful outdoor family and recreational activities will be impaired by the adverse environmental impact and create low water levels by removing 8 to 22 million gallons of water a day, and

Whereas, it would appear prudent and logical for TVA to deny the Hallsdale-Powell Utility Districts request to construct the aforementioned facility and all permits relevant to the construction of this facility.

Now, Therefore, be it resolved, that the Anderson County Board of Commissioners, meeting in regular session this 18th day of March, 2002, does hereby go on record as opposing the construction of the Hallsdale-Powell Utility district intake facility at this proposed location.

ATTEST:

Jack Keeney, County Clerk

Carl Scarbrough, Chairman



THIS IS A CERTIFIED COPY


JEFF COLE, COUNTY CLERK

RECEIVED

SEP 18 2002

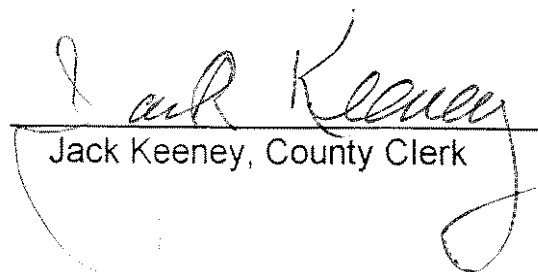
RSO
Environmental F.

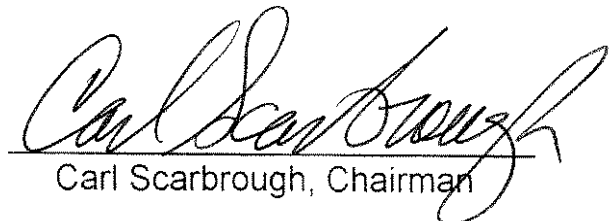
RESOLUTION

- Whereas,** the Hallsdale-Powell Utility District proposes to construct an intake facility near the Bull Run park and boat launch area, and
- Whereas,** this facility will generate a high noise level, create safety hazards and concerns, reduce property values, and be of no benefit to the citizens of Anderson County, and
- Whereas,** quiet and peaceful outdoor family and recreational activities will be impaired by the adverse environmental impact and create low water levels by removing 8 to 22 million gallons of water a day, and
- Whereas,** it would appear prudent and logical for TVA to deny the Hallsdale-Powell Utility Districts request to construct the aforementioned facility and all permits relevant to the construction of this facility.

Now, Therefore, be it resolved, that the Anderson County Board of Commissioners, meeting in regular session this 18th day of March, 2002, does hereby go on record as opposing the construction of the Hallsdale-Powell Utility district intake facility at this proposed location.

ATTEST:


Jack Keeney, County Clerk


Carl Scarbrough, Chairman

RECEIVED
APR 01 2002

NOV 04 2002



ROBERT G. CAMPBELL & ASSOCIATES, L.P.

October 31, 2002

7523 TAGGART LANE
KNOXVILLE, TN 37938

(865) 947-5996

FAX (865) 947-7556

e-mail: Robert.Campbell@rgc-a.com

Scott Ledford
TVA
Melton Hill Management Office
2009 Grubb Road
Lenoir City, TN 37771

Mr. Ledford,

I am writing this letter in response to the questions raised concerning "Alternate Sites Considered". For purposes of this response, consider the following three sites will be referenced:

- Site 1 – Existing HPUD raw water intake
- Site 2 – Proposed HPUD raw water intake
- Site 3 – "Old" West Knox raw water intake

The comment revolves around additional treatment costs due to raw water quality at the proposed site relative to the quality of the West Knox site. Treatment costs ultimately depend on cost to construct the facilities, chemical costs, and energy costs.

The West Knox intake facility was built just prior to the formation of Melton Hill Lake. This allowed the intake to be located at the bottom of the lake, approximately 40 feet deep. Our proposed intake is at depth of 15 to 18 feet. Due to the construction techniques required for a deeper depth, the additional costs of the raw water facility construction could be as much as \$1,000,000. An additional cost to locating at the West Knox site would be roughly \$2,000,000 in transmission main back to HPUD's treatment plant. Due to the size, purpose and coordination activity of the water main required, it will be almost impossible to "the laying of pipeline in an area that has already been excavated"

The West Knox site does have a very good quality of water. The turbidity of this water (measure of fine particles caused by clay, silt and soil particles) is below 5mg/l for normal days. This number does increase to near 200 mg/l during rain events. By comparison, the existing HPUD intake facility has very good turbidity readings during normal flow periods. Readings during those times have been as low as 3-4 mg/l for several months. Our average turbidity for the last 3 years is 34.7 mg/l. The degradation in water quality at the current facility is caused by two things: 1) rain events and 2) withdrawal during low pools. Rain events at the proposed site will still be a problem (as it is at the West Knox site), but the low pool withdrawal problem will be eliminated. HPUD can expect to have an additional \$272/day of chemical costs (PolyPax 812) for 5 - 10 days a month at the proposed site. This equates to a potential of \$2,720 per month.

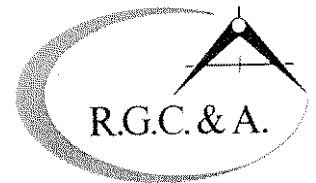
The third factor in treatment costs is energy costs. No additional energy costs will be required at the treatment plant due to no changes in the process. More plainly stated, no additional steps or equipment will need to be added for any of the alternatives. A comparison has been made using the additional energy costs required for our proposed site and the existing West Knox site. The calculation involves taking the expected flow, the additional head loss, pump run times and cost per kilowatt hour. The additional energy costs associated with locating the facility at the current West Knox intake is \$250/day or \$7,500 per month.

In summary, the total treatment costs does not rely on the water quality only. Other factors also add to the cost. We can expect an additional cost of \$4,700 per month as well as an initial cost of \$3,000,000 by locating at the current West Knox site. Our overall treatment cost will increase, not decrease as stated in the objection letter.

I hope this adequately answers the questions raised. Please contact me if I can be of further assistance.

Sincerely,


Robert G. Campbell, PE



ROBERT G. CAMPBELL & ASSOCIATES, L.P.

November 21, 2002

7523 TAGGART LANE
KNOXVILLE, TN 37938

(865) 947-5996

FAX (865) 947-7556

e-mail: Robert.Campbell@rgc-a.com

Scott Ledford
TVA
Melton Hill Management Office
2009 Grubb Road
Lenoir City, TN 37771

Mr. Ledford,

I am writing this letter in response to the question raised concerning "Alternate Sites Considered" in regards to dredging.

As TVA is aware, the present site has been dredged several times. In each instance, the trench excavated to provide adequate flow has quickly filled with sediment, due to the flow and residue in the stream from upstream erosion. Another problem with this approach is more stringent controls for disposal of dredged materials (EPA-305-B). This restriction could preclude further dredging in the future. Dredging the existing channel is a short term solution at best and could very well hamper the ability of the District to supply water to its 23,000 customers in Knox, Anderson and Union counties.

I hope this adequately answers the questions raised. Please contact me if I can be of further assistance.

Sincerely,

Robert G. Campbell, PE



ROBERT G. CAMPBELL & ASSOCIATES, L.P.

December 3, 2002

7523 TAGGART LANE
KNOXVILLE, TN 37938

(865) 947-5996

FAX (865) 947-7556

e-mail: Robert.Campbell@rgc-a.com

Scott Ledford
TVA
Melton Hill Management Office
2009 Grubb Road
Lenoir City, TN 37771

Mr. Ledford,

I am writing this letter in response to the question raised concerning "the bridge at New Henderson Road being in jeopardy while the coffer dam is being installed and removed" (Comment 12).

We have had a structural engineer review the bridge construction plans and inspection reports. His analysis indicates that since the bridge has its foundation in bedrock, temporary eddy currents created during the coffer dam construction/removal will not create instability in the foundation.

As a reminder, any cofferdam will be located 30 to 40 feet from the bridge so there will be no possibility of direct damage by equipment or the coffer dam installation.

I hope this adequately answers the question raised. Please contact me if I can be of further assistance.

Sincerely,

Robert G. Campbell, PE

December 3, 2002

BEAC, INC.

Civil-Structural-Transportation ENGINEERING

63 Arcade, Nashville, Tennessee 37219
615-726-2601, 615-726-2603 Fax

Mr. Robert Campbell
Robert Campbell & Associates
7523 Taggart Lane
Knoxville, Tennessee 37938

RAW WATER INTAKE STRUCTURE BULL RUN CREEK NEAR MILE 2 HALLSDALE-POWELL UTILITY DISTRICT KNOX COUNTY, TENNESSEE

At your request, we have reviewed the location of the proposed raw water intake structure in relation to the existing bridge over Bull Run Creek. The purpose of this analysis was to determine the effects of water turbulence from the construction and operation of the proposed intake structure on the substructure of this bridge.

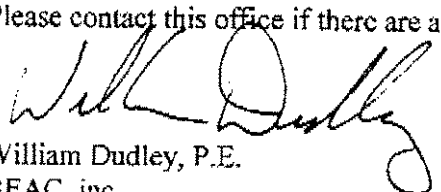
The existing bridge is a 5-span concrete bridge built in approximately 1962. The existing plans designed by the Tennessee Valley Authority and the current bridge inspection reports by Flynt Engineering Company, which included an underwater bridge report, were examined as part of this study.

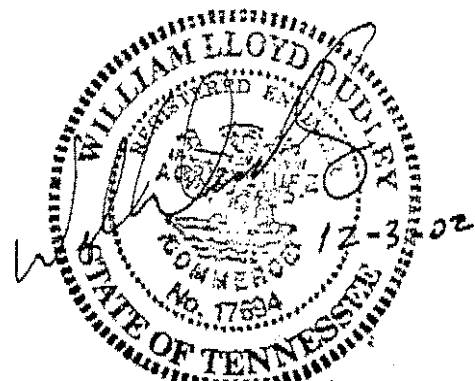
The bridge is founded on bedrock with the footing set totally in an excavation into the rock. This very conservative approach by the bridge designers is greater than today's normal practice of a rock excavation for a footing of 6-inches to a foot into the rock. The design plans indicate that the rock is sound and we surmise that the extensive rock excavation was utilized because of the height of the piers to the relatively narrow cross section of the bridge.

The underwater inspection conducted for the required T.D.O.T. bridge inspection revealed no exposed footings and concluded that there was no pattern of scour and that this bridge should not be considered scour critical. All concrete surfaces were sound and no remedial action was required.

The proposed inlet for the intake structure is located upstream of the existing bridge. If the bridge were founded on piles in a silty streambed, it is possible that turbulence by an intake structure could over time affect a foundation. However, the rock strata on which these bridge foundations are founded cannot be affected by any turbulence created during construction or operation.

Please contact this office if there are any questions.


William Dudley, P.E.
BEAC, inc.



January 21, 2003

Mr. Ron Overbay
Tennessee Wildlife Resources Agency
3030 Wildlife Way
Morristown, Tennessee 37814

Dear Mr. Overbay:

MELTON HILL RESERVOIR - TRACT NO. XMHR-80PT - CLINCH RIVER MILE
46.3L - MAP NO. 9-D

This letter is in regards to our recent meeting on January 8 at the boat ramp next to the New Henderson Bend Road Bridge to discuss the possibility of placement of two warning buoys, one on each side of the bridge. These buoys would serve two purposes, to warn boaters of the congested area near the bridge and also to mark the location of the proposed intake structure associated with the Hallsdale Powell Utility District water intake facility on Bull Run Creek, mile 2.0L. It is TVA's intent to permit the buoys to Hallsdale Powell Utility District to maintain under the same 26a permit to be issued for construction of the proposed water intake.

We appreciate your quick response in meeting with our staff and if you have any questions or if I can be of assistance, please call me at (865) 988-2443.

Sincerely,

Scott Ledford, Land Use Representative
Melton Hill Watershed Team
Resource Stewardship

WSL:HRT
cc: Files, WT, Melton Hill

**TENNESSEE WILDLIFE RESOURCES AGENCY**

REGION IV
3030 WILDLIFE WAY
MORRISTOWN, TENNESSEE 37814

JAN 29 2003

January 27, 2003

Mr. Scott Ledford
Tennessee Valley Authority
2009 Grubb Rd.
Lenoir City, TN 37771

Dear Mr. Ledford:

This letter is intended as Tennessee Wildlife Resources Agency approval and no objections for placement of "slow congested area buoys" on Melton Hill Reservoir.

These two buoys may be placed at the new Henderson Bend Road Bridge, one on each side of the said bridge.

Scott, if you have any questions, feel free to give me a call at 1-800-332-0900 or 423-587-7037 ext. 116.

Sincerely,

Tennessee Wildlife Resources Agency

Ron Overbay
Regional Coordinator
Region IV

cc: Ed Carter
File

RLO/jga

The State of Tennessee

AN EQUAL OPPORTUNITY EMPLOYER